KDV..

BOSCH

en Instruction for Use

en Table of Contents

Safety and warning information 3
Information concerning disposal 4
Scope of delivery 5
Observe ambient temperature and ventilation 5
Connecting the appliance 6
Getting to know your appliance 6
Switching on the appliance 7
Setting the temperature 7
Usable capacity 8
Refrigerator compartment 8
Super cooling 8
Freezer compartment 8
Max. freezing capacity 9
Freezing fresh food 9
Super freezing 10
Thawing frozen food 10
Interior fittings 10
Sticker “OK” 11
Switching off and disconnecting the appliance 11
Defrosting 12
Cleaning the appliance 12
Odours 13
Light (LED) 13
Tips for saving energy 13
Operating noises 14
Eliminating minor faults yourself 14
Appliance self-test 16
Customer service 16

Safety and warning information

Before you switch ON the appliance

Please read the operating and installation instructions carefully! They contain important information on how to install, use and maintain the appliance.

The manufacturer is not liable if you fail to comply with the instructions and warnings. Retain all documents for subsequent use or for the next owner.

Technical safety

This appliance contains a small quantity of environmentally-friendly but flammable R600a refrigerant. Ensure that the tubing of the refrigerant circuit is not damaged during transportation and installation. Leaking refrigerant may cause eye injuries or ignite.

If damage has occurred

- Keep naked flames and/or ignition sources away from the appliance,
- thoroughly ventilate the room for several minutes,
- switch off the appliance and pull out the mains plug,
- inform customer service.

The more refrigerant an appliance contains, the larger the room must be in which the appliance is situated. Leaking refrigerant can form a flammable gas-air mixture in rooms which are too small. The room must be at least 1 m^3 per 8 g of refrigerant. The amount of refrigerant in your appliance is indicated on the rating plate inside the appliance.

If the power cord of this appliance is damaged, it must be replaced by the manufacturer, customer service or a similarly qualified person. Improper installations and repairs may put the user at considerable risk.

Repairs may be performed by the manufacturer, customer service or a similarly qualified person only.

Only original parts supplied by the manufacturer may be used. The manufacturer guarantees that only these parts satisfy the safety requirements.

A extension cable may be purchased from customer service only.

Important information when using the appliance

- Never use electrical appliances inside the appliance (e.g. heater, electric ice maker, etc.). Risk of explosion!
- Never use a steam cleaner to defrost or clean the appliance! The steam may penetrate electrical parts and cause a short-circuit. Risk of electric shock!
- Do not use pointed or sharp-edged implements to remove frost or layers of ice. You could damage the refrigerant tubing. Leaking refrigerant may ignite or cause eye injuries.
- Do not store products which contain flammable propellants (e.g. spray cans) or explosive substances in the appliance. Risk of explosion!
- Do not stand or support yourself on the base, drawers or doors, etc.

- Before defrosting and cleaning the appliance, pull out the mains plug or switch off the fuse.
  Do not pull out the mains plug by tugging the cable.
- Bottles which contain a high percentage of alcohol must be sealed and stored in an upright position.
- Keep plastic parts and the door seal free of oil and grease. Otherwise, parts and door seal will become porous.
- Never cover or block the ventilation openings for the appliance.
- People (childern incl.) who have limited physical, sensory or mental abilities or inadequate knowledge must not use this appliance unless they are supervised or given meticulous instructions.
- Do not store bottled or canned drinks (especially carbonated drinks) in the freezer compartment. Bottles and cans may explode!
- Never put frozen food straight from the freezer compartment into your mouth.
  Risk of low-temperature burns!
- Avoid prolonged touching of frozen food, ice or the evaporator pipes, etc.
  Risk of low-temperature burns!

Children in the household

- Keep children away from packaging and its parts.
  Danger of suffocation from folding cartons and plastic film!
- Do not allow children to play with the appliance!
- If the appliance features a lock: keep the key out of the reach of children!

General regulations

The appliance is suitable for cooling and freezing food.

This appliance is intended for use in the home and the home environment.

The appliance is suppressed according to EU Directive 2004/108/EC.

The refrigeration circuit has been checked for leaks.

This product complies with the relevant safety regulations for electrical appliances (EN 60335-2-24).

Information concerning disposal

♻ Disposal of packaging

The packaging protects your appliance from damage during transit. All utilised materials are environmentally safe and recyclable. Please help us by disposing of the packaging in an environmentally friendly manner.

Please ask your dealer or inquire at your local authority about current means of disposal.

♻ Disposal of your old appliance

Old appliances are not worthless rubbish! Valuable raw materials can be reclaimed by recycling old appliances.

This appliance is identified according to the European guideline 2002/96/EC on waste electrical and electronic equipment – WEEE. The directive specifies the framework for an EU-wide valid return and re-use of old appliances.

⚠ **Warning**

Redundant appliances

1. Pull out the mains plug.
2. Cut off the power cord and discard with the mains plug.
3. Do not take out the trays and receptacles: children are therefore prevented from climbing in!
4. Do not allow children to play with the appliance once it has spent its useful life. Danger of suffocation!

Refrigerators contain refrigerant and gases in the insulation. Refrigerant and gases must be disposed of professionally. Ensure that tubing of the refrigerant circuit is not damaged prior to proper disposal.

Scope of delivery

After unpacking all parts, check for any damage in transit.

If you have any complaints, please contact the dealer from whom you purchased the appliance or our customer service.

The delivery consists of the following parts:

- Free-standing appliance
- Interior fittings (depending on model)
- Operating instructions
- Installation manual
- Customer service booklet
- Warranty enclosure
- Information on the energy consumption and noises
- Bag containing installation materials

Observe ambient temperature and ventilation

Ambient temperature

The appliance is designed for a specific climate class. Depending on the climate class, the appliance can be operated at the following temperatures.

The climate class can be found on the rating plate. Fig. 14

Climate class	Permitted ambient temperature
SN	+10 °C to 32 °C
N	+16 °C to 32 °C
ST	+16 °C to 38 °C
T	+16 °C to 43 °C

Note

The appliance is fully functional within the room temperature limits of the indicated climatic class. If an appliance of climatic class SN is operated at colder room temperatures, the appliance will not be damaged up to a temperature of +5 °C.

In this case we recommend setting the lowest possible temperature in the refrigerator compartment to reduce any condensation formation.

Ventilation

Fig. 3

The air on the rear panel and on the side panels of the appliance heats up. Conduction of the heated air must not be obstructed. Otherwise, the refrigerating unit must work harder. This increases power consumption. Therefore: Never cover or block the ventilation openings!

Connecting the appliance

After installing the appliance, wait at least 1 hour until the appliance is switched on. During transportation the oil in the compressor may have flowed into the refrigeration system.

Before switching on the appliance for the first time, clean the interior of the appliance (see chapter “Cleaning the appliance”).

Electrical connection

The socket must be near the appliance and also freely accessible following installation of the appliance.

The appliance complies with the protection class I. Connect the appliance to 220–240 V/50 Hz alternating current via a correctly installed socket with protective conductor. The socket must be fused with a 10 to 16 A fuse.

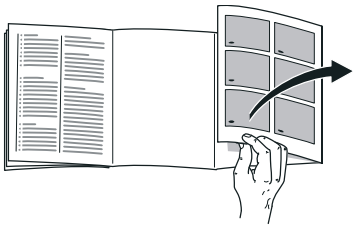
For appliances operated in non-European countries, check whether the stated voltage and current type match the values of your mains supply match the values of the mains supply. This information can be found on the rating plate. Fig. 14

⚠ Warning

Never connect the appliance to electronic energy saver plugs.

Our appliances can be used with mains and sine-controlled inverters. Mains-controlled inverters are used for photovoltaic systems which are connected directly to the national grid. Sine-controlled inverters must be used for isolated applications (e.g. on ships or in mountain lodges) which are not connected directly to the national grid.

Getting to know your appliance



Please fold out the illustrated last page. These operating instructions refer to several models.

The features of the models may vary.

The diagrams may differ.

Fig. 1

1-4 Controls
5 Glass shelf in the freezer compartment
6 Light (LED)
7 Glass shelf in the refrigerator compartment
8 Vegetable container
9 Height-adjustable feet
10 Door shelf

11 Shelf for large bottles

A Freezer compartment
B Refrigerator compartment

Controls

Fig. 2

1 **On/Off button**

Serves to switch the whole appliance on and off.

2 **Temperature display refrigerator compartment**

The numbers correspond to the set refrigerator compartment temperatures in °C.

3 **Super display**

Illuminates when super cooling or super freezing is on.

4 **Refrigerator compartment temperature selection button**

The button sets the temperature in the refrigerator compartment.

Switching on the appliance

Switch on the appliance with the On/Off button. Fig. 2/1

The appliance begins to cool. Light is switched on when the door is open.

Operating tips

- When the appliance has been switched on, it may take several hours until the set temperatures have been reached.

  Do not put any food in the appliance beforehand.

- The sides of the housing are sometimes heated slightly. This prevents condensation in the area of the door seal.
- If the freezer compartment door cannot be immediately re-opened after it has been closed, wait until the resulting low pressure has equalised.

Setting the temperature

Fig. 2

Refrigerator compartment

The temperature can be set from +2 °C to +8 °C.

Keep pressing temperature selection button 4 until the required refrigerator compartment temperature is set.
The value last selected is stored.

The set temperature is indicated on display 2.

We recommend a factory setting of +4 °C in the refrigerator compartment.

Perishable food should not be stored warmer than +4 °C.

Freezer compartment

The temperature in the freezer compartment depends on the temperature in the refrigerator compartment.

Lower temperatures in the refrigerator compartment also cause lower temperatures in the freezer compartment.

Usable capacity

Information on the usable capacity can be found inside your appliance on the rating plate. Fig. 14

Refrigerator compartment

The refrigerator compartment is the ideal storage location for ready meals, cakes and pastries, preserved food, condensed milk, hard cheese, fruit and vegetables sensitive to cold as well as tropical fruit.

Note when loading products:

Wrap or cover food before placing in the appliance. This will retain the aroma, colour and freshness of the food. In addition, flavours will not be transferred between foods and the plastic parts will not become discoloured.

Note

Avoid contact between food and rear panel. Otherwise the air circulation will be impaired.

Food or packaging could freeze to the rear panel.

Note the chill zones in the refrigerator compartment!

The air circulation in the refrigerator compartment creates different chill zones:

- Coldest zone is in the pull-out container. Fig. 4

  Note

  Store perishable food (e.g. fish, sausage, meat) in the coldest zones.

- Warmest zone is at the very top of the door.

  Note

  Store e.g. cheese and butter in the warmest zone. When served, the cheese will not have lost its flavour and the butter will be easy to spread.

Super cooling

Super cooling cools the refrigerator compartment as cold as possible for approx. 2½ days. Then the appliance automatically switches to the temperature set prior to super cooling mode.

Switch on super cooling mode, e.g.:

- before placing large quantities of food in the refrigerator compartment.
- to cool drinks quickly.

Switching on and off

Fig. 2

Keep pressing the temperature selection button 4 until the Super display 3 is lit.

Super cooling automatically switches off after approx. 2½ days.

Freezer compartment

Use the freezer compartment

- To store deep-frozen food.
- To make ice cubes.
- To freeze food.

Note

Ensure that the freezer compartment door has been closed properly. If the door is open, the frozen food will thaw. The freezer compartment will become covered in thick ice. Also: waste of energy due to high power consumption!

Purchasing frozen food

- Packaging must not be damaged.
- Use by the “use by” date.
- Temperature in the supermarket freezer must be -18 °C or lower.
- If possible, transport deep-frozen food in an insulated bag and place quickly in the freezer compartment.

Max. freezing capacity

Information about the max. freezing capacity within 24 hours can be found on the rating plate. Fig. 14

Freezing fresh food

Freeze fresh and undamaged food only.

To retain the best possible nutritional value, flavour and colour, vegetables should be blanched before freezing. Aubergines, peppers, zucchini and asparagus do not require blanching.

Literature on freezing and blanching can be found in bookshops.

Note

Keep food which is to be frozen away from food which is already frozen.

- The following foods are suitable for freezing:
  Cakes and pastries, fish and seafood, meat, game, poultry, vegetables, fruit, herbs, eggs without shells, dairy products such as cheese, butter and quark, ready meals and leftovers such as soups, stews, cooked meat and fish, potato dishes, soufflés and desserts.
- The following foods are not suitable for freezing:
  Types of vegetables, which are usually consumed raw, such as lettuce or radishes, eggs in shells, grapes, whole apples, pears and peaches, hard-boiled eggs, yoghurt, soured milk, sour cream, crème fraîche and mayonnaise.

Packing frozen food

To prevent food from losing its flavour or drying out, place in airtight containers.

1. Place food in packaging.
2. Remove air.
3. Seal the wrapping.
4. Label packaging with contents and date of freezing.

Suitable packaging:

Plastic film, tubular film
made of polyethylene, aluminium foil, freezer containers.
These products are available from specialist outlets.

Unsuitable packaging:

Wrapping paper, greaseproof paper, cellophane, bin liners and used shopping bags.

Items suitable for sealing packaged food:

Rubber bands, plastic clips, string, cold-resistant adhesive tape, etc.

Bags and tubular film
made of polyethylene can be sealed with a film heat sealer.

Shelf life of frozen food

Depends on the type of food.

At a temperature of -18 °C:

- Fish, sausage, ready meals and cakes and pastries:
  up to 6 months
- Cheese, poultry and meat:
  up to 8 months
- Vegetables and fruit:
  up to 12 months

Super freezing

Food should be frozen solid as quickly as possible in order to retain vitamins, nutritional value, appearance and flavour.

To prevent an undesirable temperature rise when placing fresh food in the freezer compartment, switch on super freezing several hours beforehand. As a rule, 4–6 hours is adequate.

If the max. freezing capacity is to be used, super freezing must be switched on for 24 hours before the fresh produce is placed in the freezer compartment.

Smaller quantities of food (up to 2 kg) can be frozen without “super freezing”.

Switching on and off

Fig. **2**

Keep pressing the temperature selection button 4 until the Super display 3 is lit.

Super freezing automatically switches off after approx. 2½ days.

Thawing frozen food

Depending on the type and application, select one of the following options:

- at room temperature
- in the refrigerator
- in an electric oven, with/without fan assisted hot-air
- in the microwave

⚠ Caution

Do not refreeze food which is beginning to thaw or which has already thawed. It can only be refrozen when it has been used to prepare a ready meal (boiled or fried).

No longer store the frozen produce for the max. storage period.

Interior fittings

(not all models)

Glass shelves

Fig. **5**
You can reposition the inner shelves as required: lift shelf, pull forwards, lower and swivel out to the side.

Vegetable container with humidity controller

Fig. 6
To create the optimum storage climate for vegetables, salad and fruit, the air humidity in vegetable container can be regulated according to the quantity stored.

The humidity monitor allows fresh food to be stored up to twice as long as in the normal cooling zone without loss of freshness.

Smaller quantities of food –
slide the regulator to the left.

Larger quantities of food –
slide the regulator to the right.

Bottle shelf

Fig. 7
Bottles can be stored securely on the bottle shelf. The holder can be adjusted.

Bottle holder

Fig. 8
The bottle holder prevents bottles from falling over when the door is opened and closed.

Ice cube tray

Fig. 9
Fill the ice cube tray ¾ full of water and place in the freezer compartment.

If the ice tray is stuck to the freezer compartment, loosen with a blunt implement only (spoon-handle).

To loosen the ice cubes, twist the ice tray slightly or hold briefly under flowing water.

Sticker “OK”

(not all models)

The “OK” temperature monitor can be used to determine temperatures below +4 °C. Gradually reduce the temperature if the sticker does not indicate “OK”.

Note

When the appliance is switched on, it may take 12 hours until the temperature is reached.

Correct setting

Switching off and disconnecting the appliance

Switching off the appliance

Fig. 2

Press the On/Off button 1. Temperature display goes out, refrigerating unit switches off.

Disconnecting the appliance

If you do not use the appliance for a prolonged period:

1. Switch off the appliance.
2. Pull out mains plug or switch off fuse.
3. Clean the appliance.
4. Leave the appliance door open.

Defrosting

Defrosting the freezer compartment

The freezer compartment does not defrost automatically, otherwise the frozen food would start thawing. A layer of frost in the freezer compartment impairs refrigeration of the frozen food and increases power consumption. Remove the layer of hoarfrost regularly.

⚠ Caution

Do not scrape off hoarfrost or ice with a knife or pointed object. You could damage the refrigerant tubes. Leaking refrigerant may ignite or cause eye injuries.

Proceed as follows:

Note

Approx. 4 hours before defrosting the appliance, switch on super freezing so that the food drops to a very low temperature and can therefore be stored at room temperature for a longer period.

1. Remove the frozen food and place temporarily in a cool location.
2. Switch the appliance off.
3. Pull out the mains plug or remove the fuse.
4. To accelerate the defrosting process, place a pan of hot water on a trivet in the freezer compartment.
5. Wipe up condensation with a cloth or sponge.
6. Wipe dry the freezer compartment.
7. Switch the appliance on again.
8. Put the frozen food back in the freezer compartment.

Refrigerator compartment defrosts fully automatically

While the refrigerating unit is running, beads of condensation or hoarfrost form at the back of the refrigerator compartment. This is quite normal. It is not necessary to wipe off the condensation or frost. The rear panel defrosts automatically. The condensation runs into the condensation channel, Fig. 10. and is conveyed to the refrigerating unit where it evaporates.

Note

Keep the condensation channel and drainage hole clean, so that the condensation can run out.

Cleaning the appliance

⚠ Caution

- Do not use abrasive, chloride or acidic cleaning agents or solvents.
- Do not use scouring or abrasive sponges.

  The metallic surfaces could corrode.
- Never clean shelves and containers in the dishwasher.

  The parts may warp!

Proceed as follows:

1. Before cleaning: Switch the appliance off.
2. Pull out the mains plug or switch off the fuse.
3. Take out the frozen food and store in a cool location. Place the ice pack (if enclosed) on the food.

4. Clean the appliance with a soft cloth, lukewarm water and a little pH neutral washing-up liquid. The rinsing water must not run into the light.
5. Wipe the door seal with clear water only and then wipe dry thoroughly.
6. After cleaning reconnect and switch the appliance back on.
7. Put the frozen food back in the freezer compartment.

Interior fittings

All variable parts of the appliance can be taken out for cleaning.

Take out glass shelves

Fig. 5

Lift the glass shelves, pull forwards, lower and swivel out to the side.

Condensation drainage channel

To clean the condensation outlet channel, the glass shelf above the vegetable drawer, Fig. 1/8, must be taken out.

Regularly clean the condensation channel and drainage hole with a cotton bud or similar implement to ensure that the condensation can drain.

Removing the container

Fig. 11

Pull out the container all the way, lift at the front and remove.

Vegetable container

Fig. 12

The fascia of the vegetable container can be removed for cleaning.

Press side buttons in succession and remove fascia from the vegetable container.

Take out shelves in the door

Fig. 13

Lift shelves upwards and take out.

Odours

If you experience unpleasant odours:

1. Switch off the appliance with the On/ Off button. Fig. 2/1
2. Take all food out of the appliance.
3. Clean the interior. See “Cleaning the appliance”.
4. Clean all packages.
5. Seal strong smelling food in order to avoid odours from forming.
6. Switch on the appliance again.
7. Store food in the appliance.
8. Check whether the formation of odours is still occuring after 24 hous.

Light (LED)

Your appliance features a maintenance-free LED light.

These lights may be repaired by customer service or authorised technicians only.

Tips for saving energy

- Install the appliance in a dry, well ventilated room! The appliance should not be installed in direct sunlight or near a heat source (e.g. radiator, cooker).

  If required, use an insulating plate.
- Allow warm food and drinks to cool down before placing in the appliance!

- When thawing frozen products, place them in the refrigerator. Use the coldness of the frozen food to cool food.
- Regularly defrost the freezer compartment to remove the layer of frost!

  A layer of hoarfrost will impair refrigeration of the frozen food and increase power consumption.
- Open the appliance as briefly as possible.
- Occasionally clean the rear of the appliance with a vacuum cleaner or paint brush to prevent an increased power consumption.
- If available: Fit wall spacers to obtain the indicated energy rating of the appliance (see Installation instructions). A reduced wall gap will not restrict the function of the appliance. The energy rating may then change slightly. The gap of 75 mm must not be exceeded.

Operating noises

Quite normal noises

Droning

Motors are running (e.g. refrigerating units, fan).

Bubbling, humming or gurgling noises

Refrigerant is flowing through the tubing.

Clicking

Motor, switches or solenoid valves are switching on/off.

Preventing noises

The appliance is not level

Please align the appliance with a spirit level. Use the height-adjustable feet or place packing underneath them.

The appliance is not free-standing

Please move the appliance away from adjacent units or appliances.

Containers or storage areas wobble or stick

Please check the removable parts and re-insert them correctly if required.

Bottles or receptacles are touching each other

Move the bottles or receptacles slightly away from each other.

Eliminating minor faults yourself

Before you call customer service:

Please check whether you can eliminate the fault yourself based on the following information.

Customer service will charge you for advice – even if the appliance is still under guarantee!

Fault	Possible cause	Remedial action
Temperature differs greatly from the set value.		In some cases it is adequate to switch off the appliance for 5 minutes. If the temperature is too high wait a few hours and check whether the temperature has approached the set value. If the temperature is too low check the temperature again the next day.
Displays do not illuminate.	Power failure; the fuse has been switched off; the mains plug has not been inserted properly.	Connect mains plug. Check whether the power is on, check the fuses.
The temperature in the refrigerator compartment is too cold.	Temperature has been set too low.	Increase the temperature (see Selecting the temperature).
Floor of the refrigerator compartment is wet.	The condensation channels or drainage hole are blocked.	Clean the condensation channels and the drainage hole. See chapter Cleaning the appliance. Fig. 10
The freezer compartment has a thick layer of frost.		Defrost the freezer compartment (see chapter Defrosting). Always ensure that the freezer compartment door is closed properly.
The temperature in the freezer compartment is too warm.	Appliance opened frequently.	Do not open the appliance unnecessarily.
	The ventilation openings have been covered.	Remove obstacles.
	Large quantities of fresh food are being frozen.	Do not exceed max. freezing capacity.

Appliance self-test

Your appliance features an automatic self-test program which shows you sources of faults which may be repaired by customer service only.

Starting the appliance self-test

1. Switch off the appliance and wait 5 minutes.
2. Switch on the appliance and hold down the temperature selection button, Fig. 2/4, for 3–5 seconds within the first 10 seconds until 2 °C is lit on the refrigerator compartment temperature display.

   The self-test programme starts, when the temperature displays lit up in succession.

When after a short time the appliance displays the set temperature prior to the self-test, everything is ok.

If the Super display flashes for 10 seconds, an error has occurred. Inform customer service.

Ending the appliance self-test

When the programme has ended, the appliance switches over to normal operation.

Customer service

Your local customer service can be found in the telephone directory or in the customer-service index. Please provide customer service with the appliance product number (E-Nr.) and production number (FD).

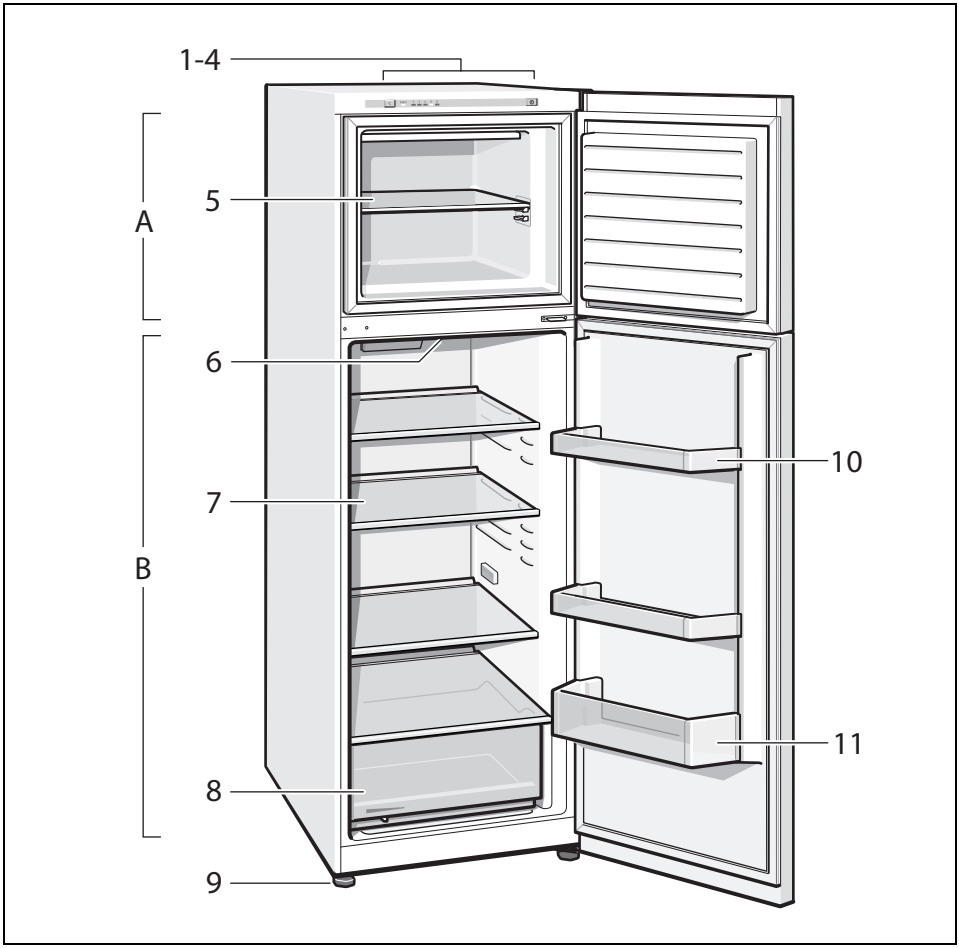
These specifications can be found on the rating plate. Fig. 14

To prevent unnecessary call-outs, please assist customer service by quoting the product and production numbers. This will save you additional costs.

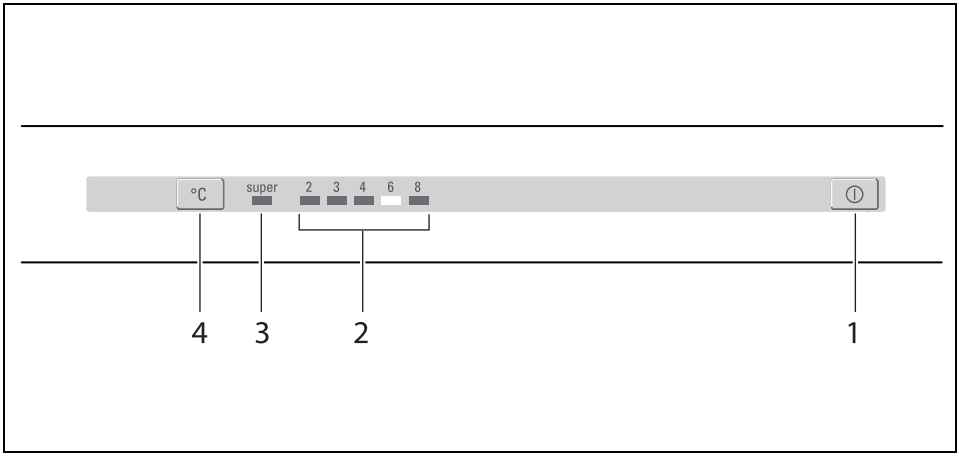
Repair order and advice on faults

Contact information for all countries can be found on the enclosed customer service list.

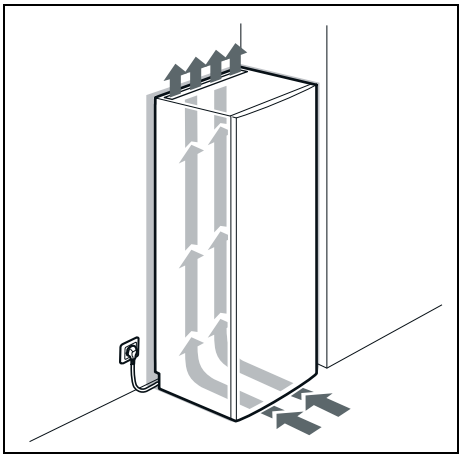
GB	0844 8928979	Calls from a BT landline will be charged at up to 3 pence per minute. A call set-up fee of up to 6 pence may apply.
IE	01450 2655	
US	800 944 2904	toll-free



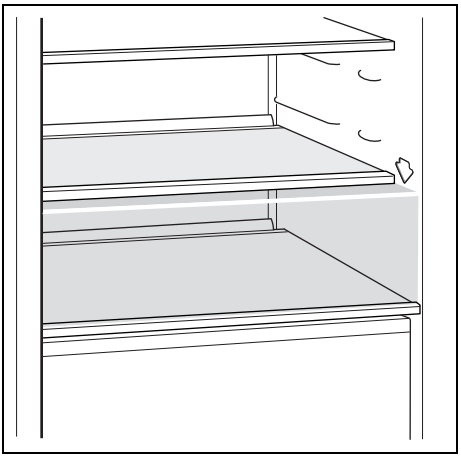
1



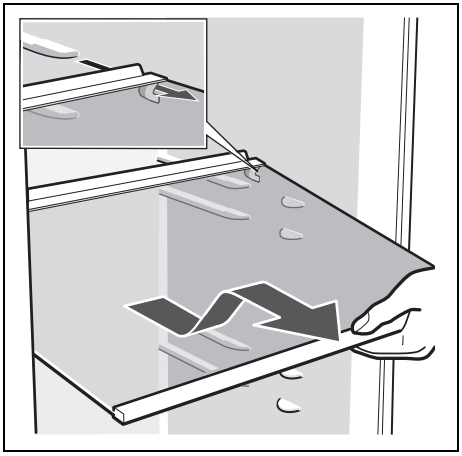
2



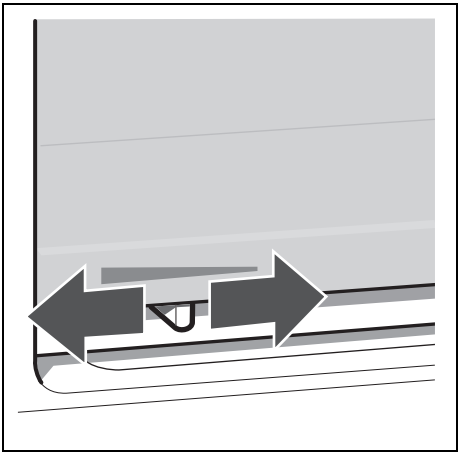
3



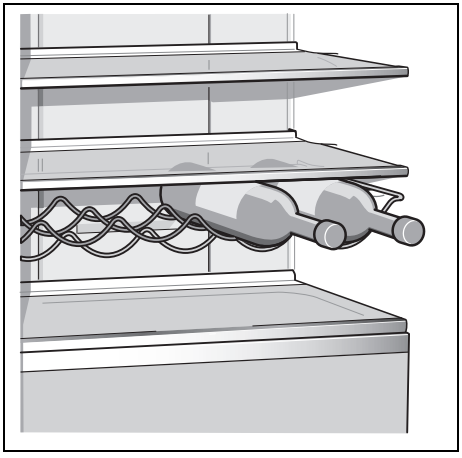
4



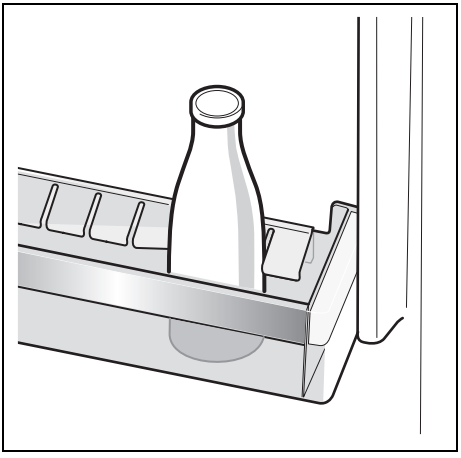
5



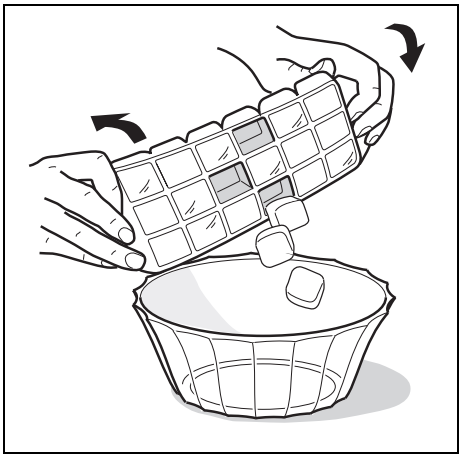
6



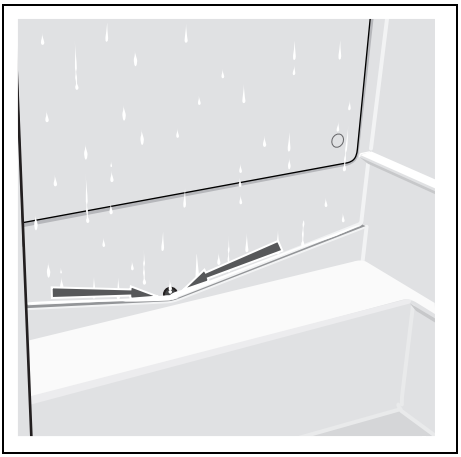
7



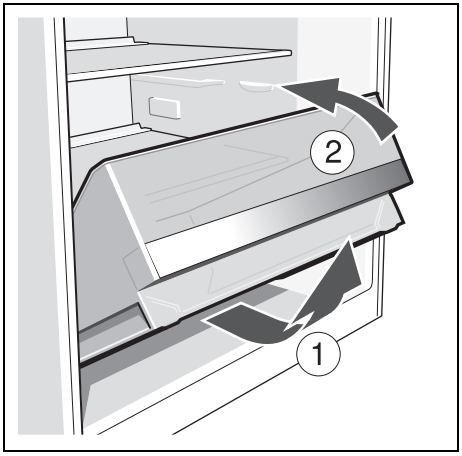
8



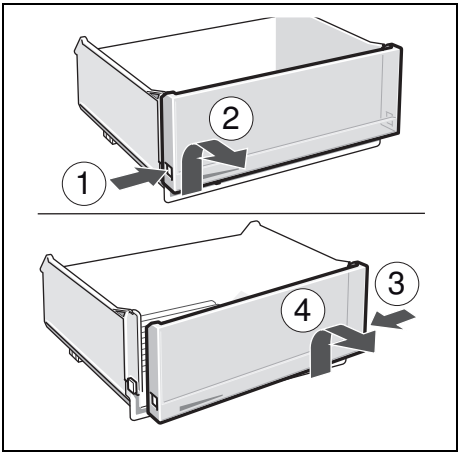
9



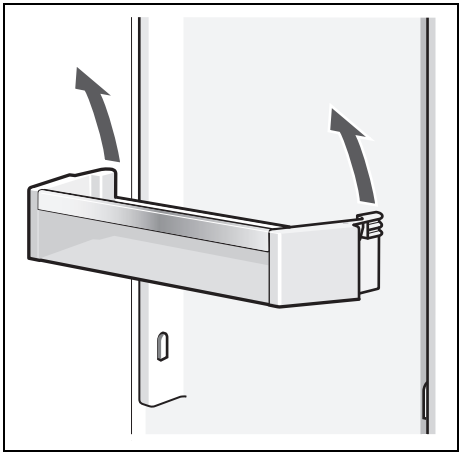
10



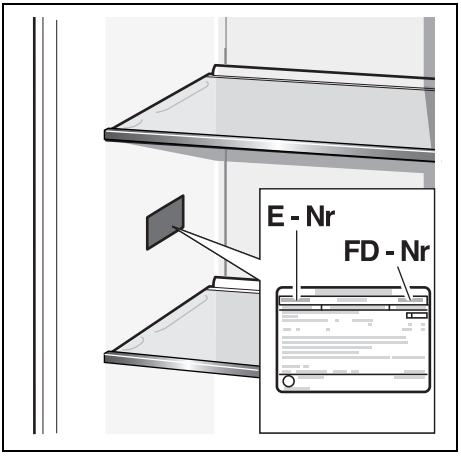
11



12



13



14

Robert Bosch Hausgeräte GmbH
Carl-Wery-Straße 34
81739 München
DEUTSCHLAND

9000605149 (9111)
en